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Atty. Dkt. No. 083847-0198

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Percy Van Crocker et al.
Title: Nanometer-Scale Engineered Structures, Methods and Apparatus for Fabrication thereof, and Applications to Mask Repair, Enhancement, and Fabrication
Appl. No.: 10/689,547
Filing Date: 10/21/2003
Examiner: Unassigned
Art Unit: 2812

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003*.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove

as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date

July 7, 2004

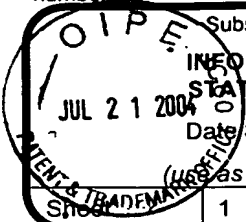
By

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 Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: _____ (Use as many sheets as necessary)		Complete if Known	
Application Number		10/689,547	
Filing Date		10/21/2003	
First Named Inventor		Percy Van Crocker	
Group Art Unit		2812	
Examiner Name		Unassigned	
Attorney Docket Number		083847-0198	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,200,668		Segal et al.	04-29-1980	
	A2	4,727,234		Oprysko et al.	02-23-1988	
	A3	5,126,574		Gallagher	06-30-1992	
	A4	5,294,465		Gallagher	03-15-1994	
	A5	5,674,409		Muller	10-07-1997	
	A6	5,747,120		McLean, II et al.	05-05-1998	
	A7	5,751,683		Kley	05-12-1998	
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	A9	5,772,905		Chou	06-30-1998	
	A10	5,798,193		Pierrat et al.	08-25-1998	
	A11	5,854,487		Braunstein et al.	12-29-1998	
	A12	5,879,860		Rosolen et al.	03-09-1999	
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Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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U.S. PATENT DOCUMENTS

U.S. Patent Document					
	A42	2004/0026007	A1	Hubert et al.	02-12-2004
	A43	2004/0101469	A1	Demers	05-27-2004

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A44	WO	98/34092	A2	Rave, L.L.C.	08-06-1998		
	A45	WO	03/019238	A2	Aaron Lewis	03-06-2003		
	A46	WO	03/021297	A2	Aaron Lewis	03-13-2003		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A47	K. LIEBERMAN et al., "Near-field optical photomask repair with a femtosecond laser", <i>Journal of Microscopy</i> , Vol. 194, Pt 2/3, May/June 1999, pp. 537-541.	
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	A49	AARON LEWIS et al., "Fountain pen nanochemistry: Atomic force control of chrome etching", <i>Applied Physics Letters</i> , Vol. 75, No. 17, October 25, 1999, pp. 2689-2691.	
	A50	http://www.micromagazine.com/archive/99/10/product1.htm , "Machine Vision Software Improves Accuracy of Photomask Repair System", Oct. 99.	
	A51	YOUNAN XIA et al., "Unconventional Methods for Fabricating and Patterning Nanostructures", <i>American Chemical Society</i> , 1999, pp. 1823-1848.	
	A52	NAKAMURA, "Divot defect repair on a deep ultraviolet SiNx halftone mask", <i>American Vacuum Society</i> (1996), pp. 3892-3895	

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